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1 Shape-based retrieval and analysis of 3D models
◆ Thomas Funkhouser, Michael Kazhdan
August 2004 **Proceedings of the conference on SIGGRAPH 2004 course notes SIGGRAPH '04**
Publisher: ACM Press
Full text available: 📄 pdf(12.56 MB)   Additional Information: full citation, abstract

Large repositories of 3D data are rapidly becoming available in several fields, including mechanical CAD, molecular biology, and computer graphics. As the number of 3D models grows, there is an increasing need for computer algorithms to help people find the interesting ones and discover relationships between them. Unfortunately, traditional text-based search techniques are not always effective for 3D models, especially when queries are geometric in nature (e.g., find me objects that fit into thi ...

2 Image Retrieval from the World Wide Web: Issues, Techniques, and Systems
◆ M. L. Kherfi, D. Ziou, A. Bernardi
March 2004 **ACM Computing Surveys (CSUR)**, Volume 36 Issue 1
Publisher: ACM Press
Full text available: 📄 pdf(294.13 KB)   Additional Information: full citation, abstract, references, index terms

With the explosive growth of the World Wide Web, the public is gaining access to massive amounts of information. However, locating needed and relevant information remains a difficult task, whether the information is textual or visual. Text search engines have existed for some years now and have achieved a certain degree of success. However, despite the large number of images available on the Web, image search engines are still rare. In this article, we show that in order to allow people to profi ...

Keywords: Image-retrieval, World Wide Web, crawling, feature extraction and selection, indexing, relevance feedback, search, similarity

3 Searching in metric spaces
◆ Edgar Chávez, Gonzalo Navarro, Ricardo Baeza-Yates, José Luis Marroquín
September 2001 **ACM Computing Surveys (CSUR)**, Volume 33 Issue 3
Publisher: ACM Press

Additional Information: full citation, abstract, references, citings, index

10/797,586

Full text available: pdf(916.04 KB)   terms

The problem of searching the elements of a set that are close to a given query element under some similarity criterion has a vast number of applications in many branches of computer science, from pattern recognition to textual and multimedia information retrieval. We are interested in the rather general case where the similarity criterion defines a metric space, instead of the more restricted case of a vector space. Many solutions have been proposed in different areas, in many cases without cros ...

Keywords: Curse of dimensionality, nearest neighbors, similarity searching, vector spaces

4 Experiences with selecting search engines using metasearch

Daniel Dreilinger, Adele E. Howe
July 1997 **ACM Transactions on Information Systems (TOIS)**, Volume 15 Issue 3
Publisher: ACM Press

Full text available: pdf(428.65 KB)   Additional Information: full citation, abstract, references, citings, index terms, review

Search engines are among the most useful and high-profile resources on the Internet. The problem of finding information on the Internet has been replaced with the problem of knowing where search engines are, what they are designed to retrieve, and how to use them. This article describes and evaluates SavvySearch, a metasearch engine designed to intelligently select and interface with multiple remote search engines. The primary metasearch issue examined is the importance of carefully selecti ...

Keywords: WWW, information retrieval, machine learning, search engine

5 Theory of keyblock-based image retrieval

April 2002 **ACM Transactions on Information Systems (TOIS)**, Volume 20 Issue 2
Publisher: ACM Press

Full text available: pdf(2.14 MB)   Additional Information: full citation, abstract, references, citings, index terms, review

The success of text-based retrieval motivates us to investigate analogous techniques which can support the querying and browsing of image data. However, images differ significantly from text both syntactically and semantically in their mode of representing and expressing information. Thus, the generalization of information retrieval from the text domain to the image domain is non-trivial. This paper presents a framework for information retrieval in the image domain which supports content-based q ...

Keywords: clustering, codebook, content-based image retrieval, keyblock

6 Scalable high-speed prefix matching

Marcel Waldvogel, George Varghese, Jon Turner, Bernhard Plattner
November 2001 **ACM Transactions on Computer Systems (TOCS)**, Volume 19 Issue 4
Publisher: ACM Press

Full text available: pdf(933.02 KB)   Additional Information: full citation, abstract, references, citings, index terms

Finding the longest matching prefix from a database of keywords is an old problem with a number of applications, ranging from dictionary searches to advanced memory management to computational geometry. But perhaps today's most frequent best matching prefix lookups occur in the Internet, when forwarding packets from router to

router. Internet traffic volume and link speeds are rapidly increasing; at the same time, a growing user population is increasing the size of routing tables against which p ...

Keywords: collision resolution, forwarding lookups, high-speed networking

7 **Quality of service in an information economy**
R. Braumandl, A. Kemper, D. Kossmann
November 2003 **ACM Transactions on Internet Technology (TOIT)**, Volume 3 Issue 4
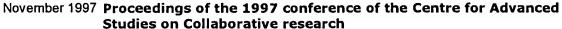**Publisher**: ACM Press

Full text available: pdf(829.15 KB)   Additional Information: full citation, abstract, references, citings, index terms

Accessing and processing distributed data sources have become important factors for businesses today. This is especially true for the emerging virtual enterprises with their data and processing capabilities spread across the Internet. Unfortunately, however, query processing on the Internet is not predictable and robust enough to meet the requirements of many business applications. For instance, the response time of a query can be unexpectedly high; or the monetary cost might be too high if the ...

Keywords: Quality of Service

8 **Fast detection of communication patterns in distributed executions**
Thomas Kunz, Michiel F. H. Seuren
November 1997 **Proceedings of the 1997 conference of the Centre for Advanced Studies on Collaborative research**
Publisher: IBM Press

Full text available: pdf(4.21 MB)   Additional Information: full citation, abstract, references, index terms

Understanding distributed applications is a tedious and difficult task. Visualizations based on process-time diagrams are often used to obtain a better understanding of the execution of the application. The visualization tool we use is Poet, an event tracer developed at the University of Waterloo. However, these diagrams are often very complex and do not provide the user with the desired overview of the application. In our experience, such tools display repeated occurrences of non-trivial commun ...

9 **An adaptive information retrieval system based on associative networks**
Helmut Berger, Michael Dittenbach, Dieter Merkl
January 2004 **Proceedings of the first Asian-Pacific conference on Conceptual modelling - Volume 31 APCCM '04**
Publisher: Australian Computer Society, Inc.

Full text available: pdf(829.83 KB)   Additional Information: full citation, abstract, references

In this paper we present a multilingual information retrieval system that provides access to Tourism information by exploiting the intuitiveness of natural language. In particular, we describe the knowledge representation model underlying the information retrieval system. This knowledge representation approach is based on associative networks and allows the definition of semantic relationships between domain-intrinsic information items. The network structure is used to define weighted associatio ...

Keywords: associative networks, constrained spreading activation, knowledge representation, natural language information retrieval

10 **Self-tuning cost modeling of user-defined functions in an object-relational DBMS**
Zhen He, Byung Suk Lee, Robert Snapp

September 2005 **ACM Transactions on Database Systems (TODS)**, Volume 30 Issue 3
Publisher: ACM Press
Full text available: pdf(1.42 MB)   Additional Information: full citation, abstract, references, index terms

Query optimizers in object-relational database management systems typically require users to provide the execution cost models of user-defined functions (UDFs). Despite this need, however, there has been little work done to provide such a model. The existing approaches are static in that they require users to train the model a priori with pregenerated UDF execution cost data. Static approaches can not adapt to changing UDF execution patterns and thus degrade in accuracy when the UDF executions u ...

Keywords: *K*-nearest neighbors, cost modeling, object relational DBMS, quadtree, query optimization, self-tuning

11 Video II: Latent semantic analysis for an effective region-based video shot retrieval system
Fabrice Souvannavong, Bernard Merialdo, Benoît Huet
October 2004 **Proceedings of the 6th ACM SIGMM international workshop on Multimedia information retrieval**
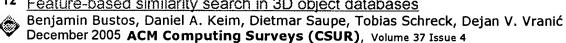**Publisher:** ACM Press
Full text available: pdf(299.21 KB)   Additional Information: full citation, abstract, references, index terms

We present a complete and efficient framework for video shot indexing and retrieval. Video shots are described by their key-frame, themselves described by their regions. Region-based approaches suffer from the complexity of segmentation and comparison tasks. A compact region-based shot representation is usually obtained thanks to vector-quantization method. We thus introduce LSA to reduce the noise inherent to the segmentation and the quantization processes. Then to better capture the content ...

Keywords: latent semantic analysis, region clustering, region similarity, region-based video retrieval, video analysis

12 Feature-based similarity search in 3D object databases
Benjamin Bustos, Daniel A. Keim, Dietmar Saupe, Tobias Schreck, Dejan V. Vranić
December 2005 **ACM Computing Surveys (CSUR)**, Volume 37 Issue 4
Publisher: ACM Press
Full text available: pdf(5.29 MB)   Additional Information: full citation, abstract, references, index terms

The development of effective content-based multimedia search systems is an important research issue due to the growing amount of digital audio-visual information. In the case of images and video, the growth of digital data has been observed since the introduction of 2D capture devices. A similar development is expected for 3D data as acquisition and dissemination technology of 3D models is constantly improving. 3D objects are becoming an important type of multimedia data with many promising appl ...

Keywords: 3D model retrieval, content-based similarity search

13 Level set and PDE methods for computer graphics
David Breen, Ron Fedkiw, Ken Museth, Stanley Osher, Guillermo Sapiro, Ross Whitaker
August 2004 **Proceedings of the conference on SIGGRAPH 2004 course notes SIGGRAPH '04**
Publisher: ACM Press
Full text available: pdf(17.07 MB)   Additional Information: full citation, abstract, citings

Level set methods, an important class of partial differential equation (PDE) methods, define dynamic surfaces implicitly as the level set (iso-surface) of a sampled, evolving nD function. The course begins with preparatory material that introduces the concept of using partial differential equations to solve problems in computer graphics, geometric modeling and computer vision. This will include the structure and behavior of several different types of differential equations, e.g. the level set eq ...

14 Subspace clustering for high dimensional data: a review

Lance Parsons, Ehtesham Haque, Huan Liu
June 2004 **ACM SIGKDD Explorations Newsletter**, Volume 6 Issue 1
Publisher: ACM Press
Full text available: pdf(539.13 KB)   Additional Information: full citation, abstract, references

Subspace clustering is an extension of traditional clustering that seeks to find clusters in different subspaces within a dataset. Often in high dimensional data, many dimensions are irrelevant and can mask existing clusters in noisy data. Feature selection removes irrelevant and redundant dimensions by analyzing the entire dataset. Subspace clustering algorithms localize the search for relevant dimensions allowing them to find clusters that exist in multiple, possibly overlapping subspaces. The ...

Keywords: clustering survey, high dimensional data, projected clustering, subspace clustering

15 Technique for automatically correcting words in text

Karen Kukich
December 1992 **ACM Computing Surveys (CSUR)**, Volume 24 Issue 4
Publisher: ACM Press
Full text available: pdf(6.23 MB)   Additional Information: full citation, abstract, references, citings, index terms, review

Research aimed at correcting words in text has focused on three progressively more difficult problems:(1) nonword error detection; (2) isolated-word error correction; and (3) context-dependent work correction. In response to the first problem, efficient pattern-matching and n-gram analysis techniques have been developed for detecting strings that do not appear in a given word list. In response to the second problem, a variety of general and application-specific spelling cor ...

Keywords: n-gram analysis, Optical Character Recognition (OCR), context-dependent spelling correction, grammar checking, natural-language-processing models, neural net classifiers, spell checking, spelling error detection, spelling error patterns, statistical-language models, word recognition and correction

16 Information retrieval on the web

Mei Kobayashi, Koichi Takeda
June 2000 **ACM Computing Surveys (CSUR)**, Volume 32 Issue 2
Publisher: ACM Press
Full text available: pdf(213.89 KB)   Additional Information: full citation, abstract, references, citings, index terms

In this paper we review studies of the growth of the Internet and technologies that are useful for information search and retrieval on the Web. We present data on the Internet from several different sources, e.g., current as well as projected number of users, hosts, and Web sites. Although numerical figures vary, overall trends cited by the sources are consistent and point to exponential growth in the past and in the coming decade. Hence it is not surprising that about 85% of Internet user ...

Keywords: Internet, World Wide Web, clustering, indexing, information retrieval, knowledge management, search engine

17 Workshop reports: Cross language information retrieval: a research roadmap

Fredric Gey, Noriko Kando, Carol Peters

September 2002 **ACM SIGIR Forum**, Volume 36 Issue 2

Publisher: ACM Press

Full text available: pdf(66.00 KB)   Additional Information: full citation

18 External memory algorithms and data structures: dealing with **massive data**

Jeffrey Scott Vitter

June 2001 **ACM Computing Surveys (CSUR)**, Volume 33 Issue 2

Publisher: ACM Press

Full text available: pdf(828.46 KB)   Additional Information: full citation, abstract, references, citings, index terms

Data sets in large applications are often too massive to fit completely inside the computers internal memory. The resulting input/output communication (or I/O) between fast internal memory and slower external memory (such as disks) can be a major performance bottleneck. In this article we survey the state of the art in the design and analysis of external memory (or EM) algorithms and data structures, where the goal is to exploit locality in order to reduce the I/O costs. We consider a varie ...

Keywords: B-tree, I/O, batched, block, disk, dynamic, extendible hashing, external memory, hierarchical memory, multidimensional access methods, multilevel memory, online, out-of-core, secondary storage, sorting

19 Student best paper contest: Confidence-based dynamic ensemble for image annotation and semantics discovery

Beitao Li, Kingshy Goh

November 2003 **Proceedings of the eleventh ACM international conference on Multimedia**

Publisher: ACM Press

Full text available: pdf(275.37 KB)   Additional Information: full citation, abstract, references, citings, index terms

Providing accurate and scalable solutions to map low-level perceptual features to high-level semantics is critical for multimedia information organization and retrieval. In this paper, we propose a confidence-based dynamic ensemble (CDE) to overcome the shortcomings of the traditional *static* classifiers. In contrast to the traditional models, CDE can make dynamic adjustments to accommodate new semantics, to assist the discovery of useful low-level features, and to improve class-prediction ...

20 PODS invited talk: Models and issues in data stream systems

Brian Babcock, Shivnath Babu, Mayur Datar, Rajeev Motwani, Jennifer Widom

June 2002 **Proceedings of the twenty-first ACM SIGMOD-SIGACT-SIGART symposium on Principles of database systems**

Publisher: ACM Press

Full text available: pdf(257.79 KB)   Additional Information: full citation, abstract, references, citings, index terms

In this overview paper we motivate the need for and research issues arising from a new

model of data processing. In this model, data does not take the form of persistent relations, but rather arrives in multiple, continuous, rapid, time-varying *data streams.* In addition to reviewing past work relevant to data stream systems and current projects in the area, the paper explores topics in stream query languages, new requirements and challenges in query processing, and algorithmic issues.

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